ABSTRACT

An ergonomic device actuator has a housing and a nut disposed to rotate within the housing. The nut has right handed threads at a first end and left handed threads at a second end. A first lead screw has right handed threads and is extendingly engaged with the first end of the nut. A second lead screw has left handed threads and is engaged with the second end of the nut to extend in the opposite direction from the first lead screw. A seat in the first lead screw is adapted to anchor a tension cable wire end axially with the lead screws and a collar on the second lead screw is adapted to anchor a tension cable sleeve end axially with the lead screws. Thereby, rotation of the nut drives the first lead screw and the second lead screw apart, tensioning the tension cable by urging the tension cable wire end apart from the tension cable sleeve end, and actuating an attached ergonomic device.